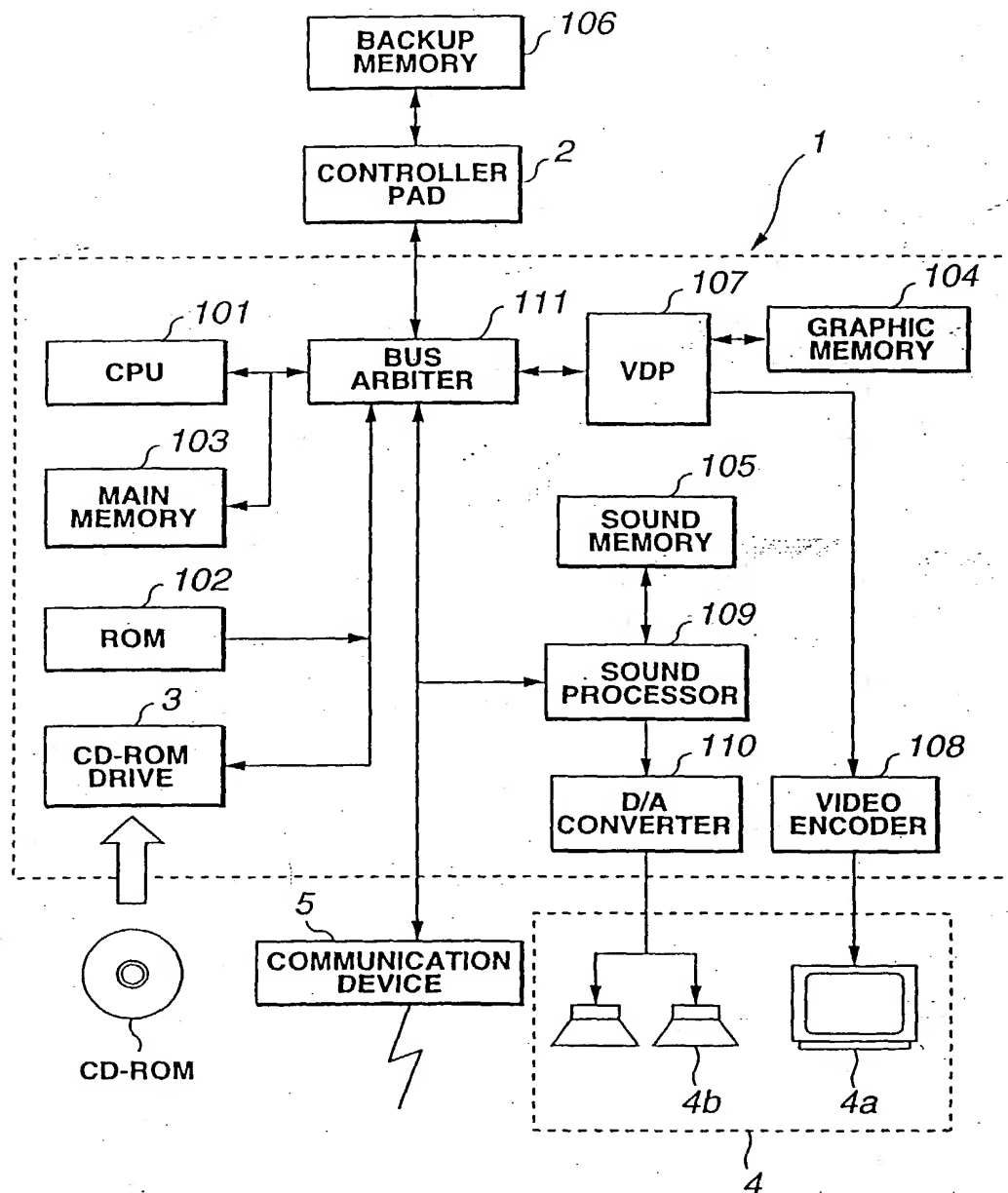


FIG. 1





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FIG. 2

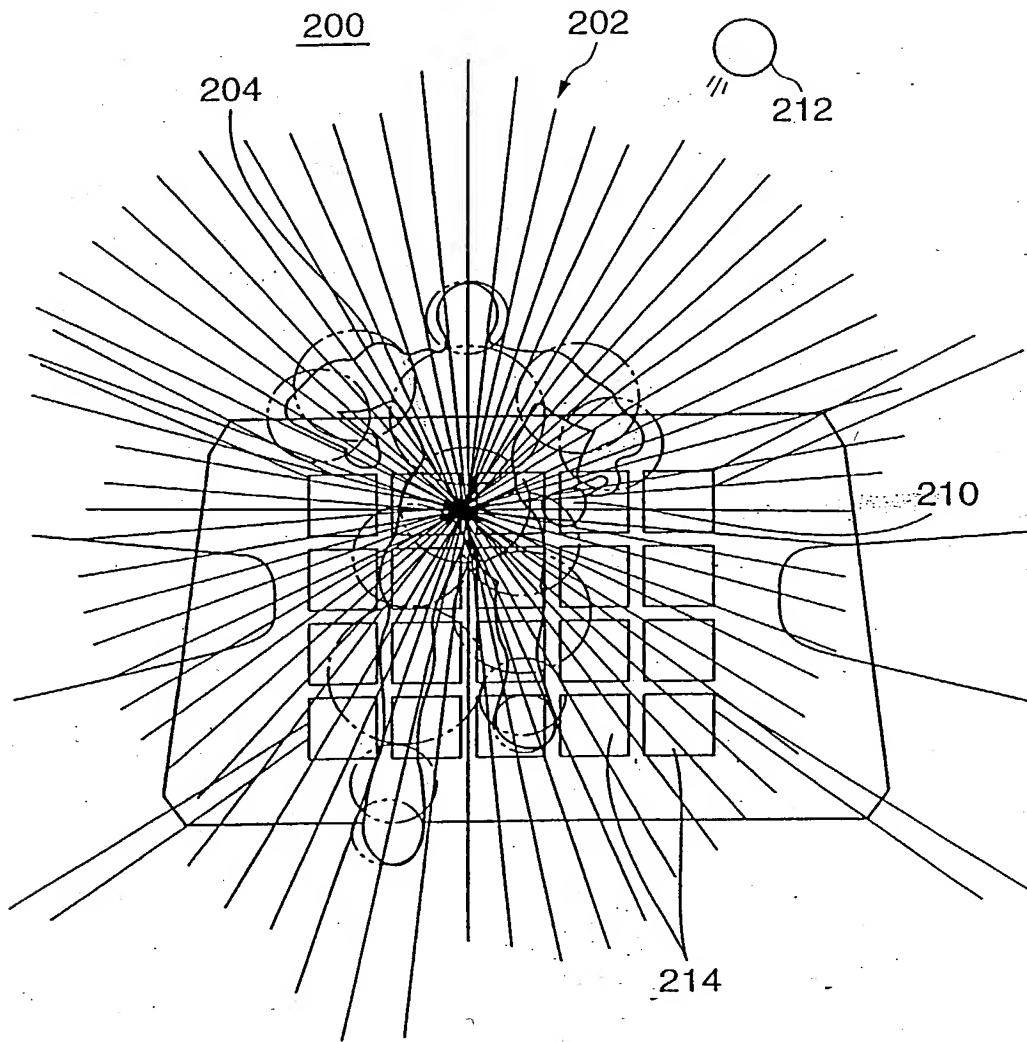


FIG. 3

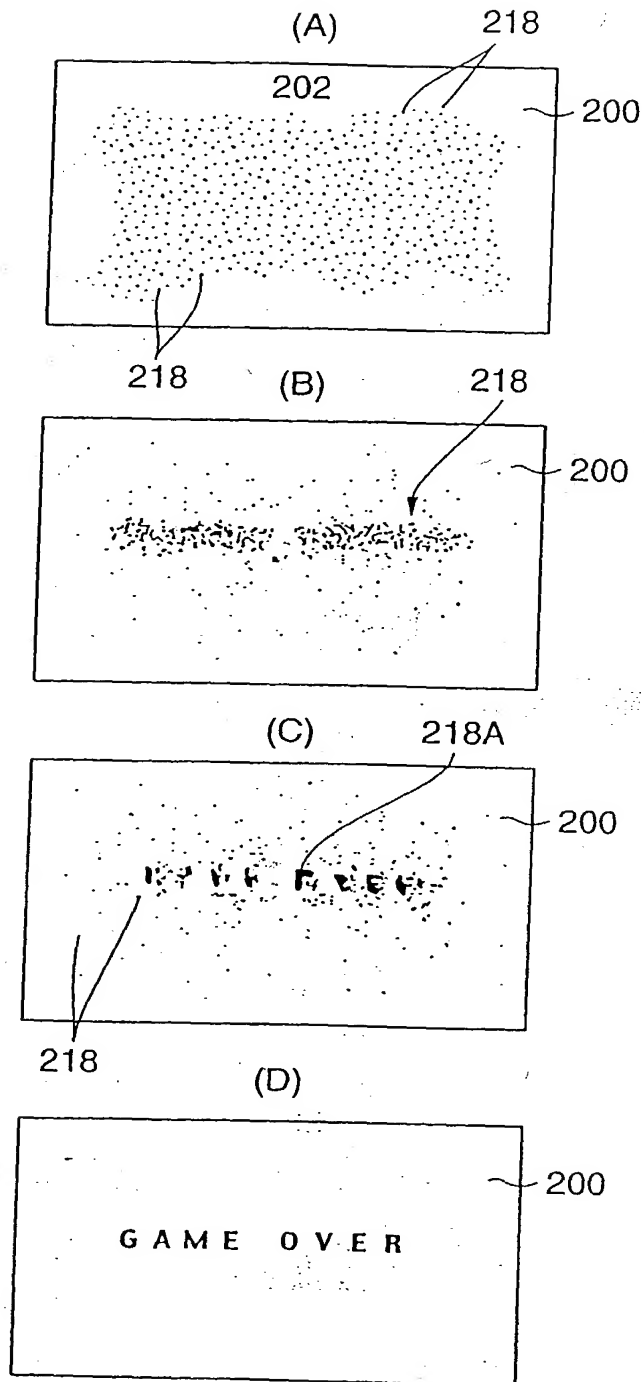
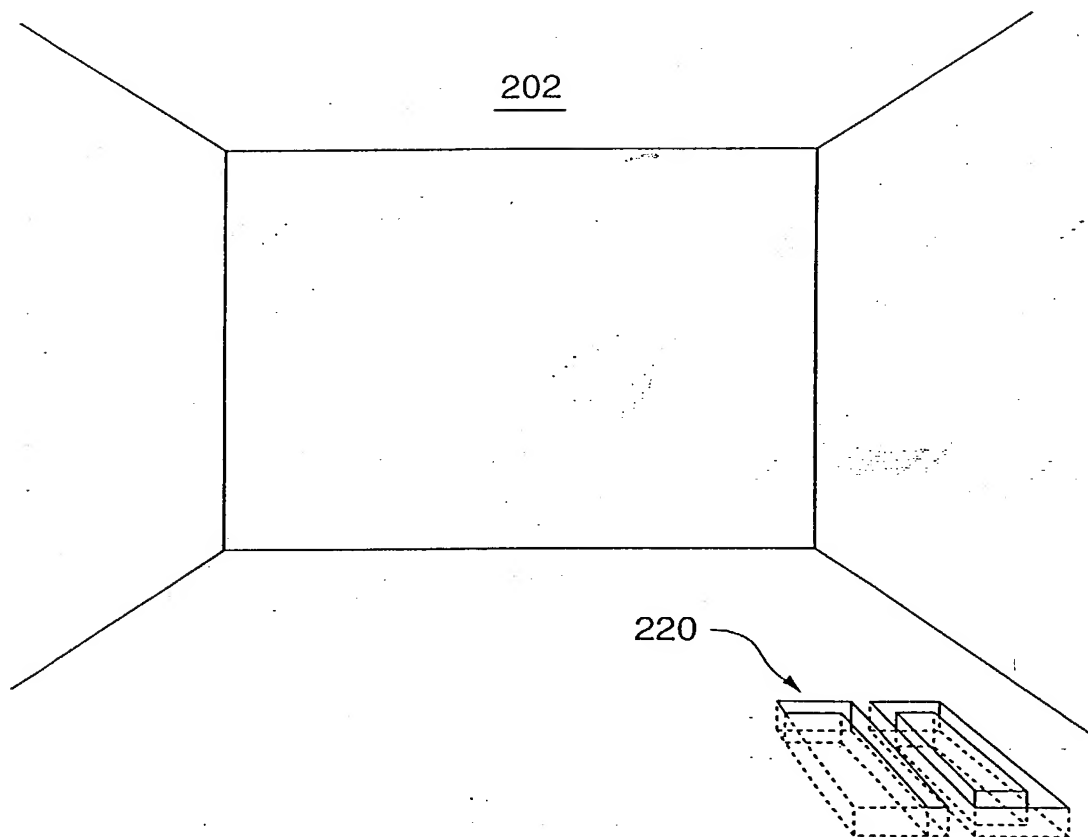


FIG. 4





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FIG. 5

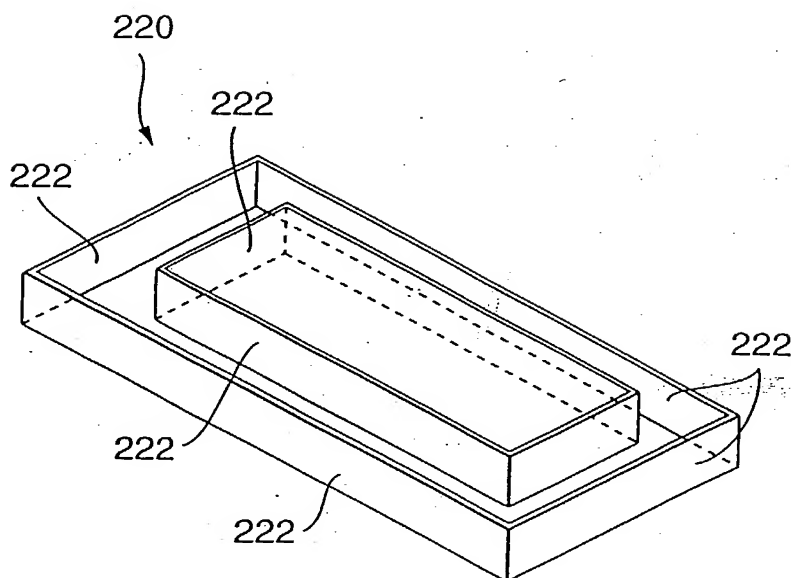
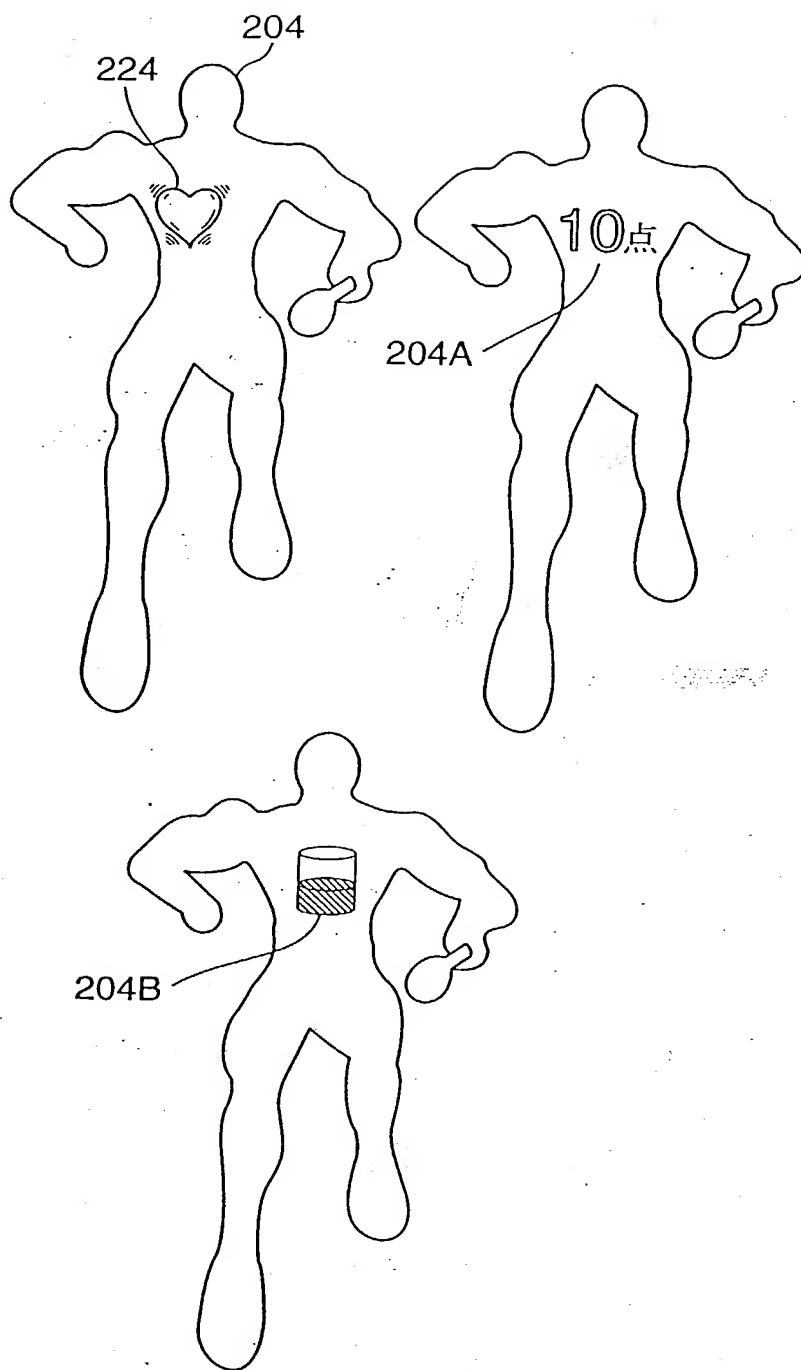


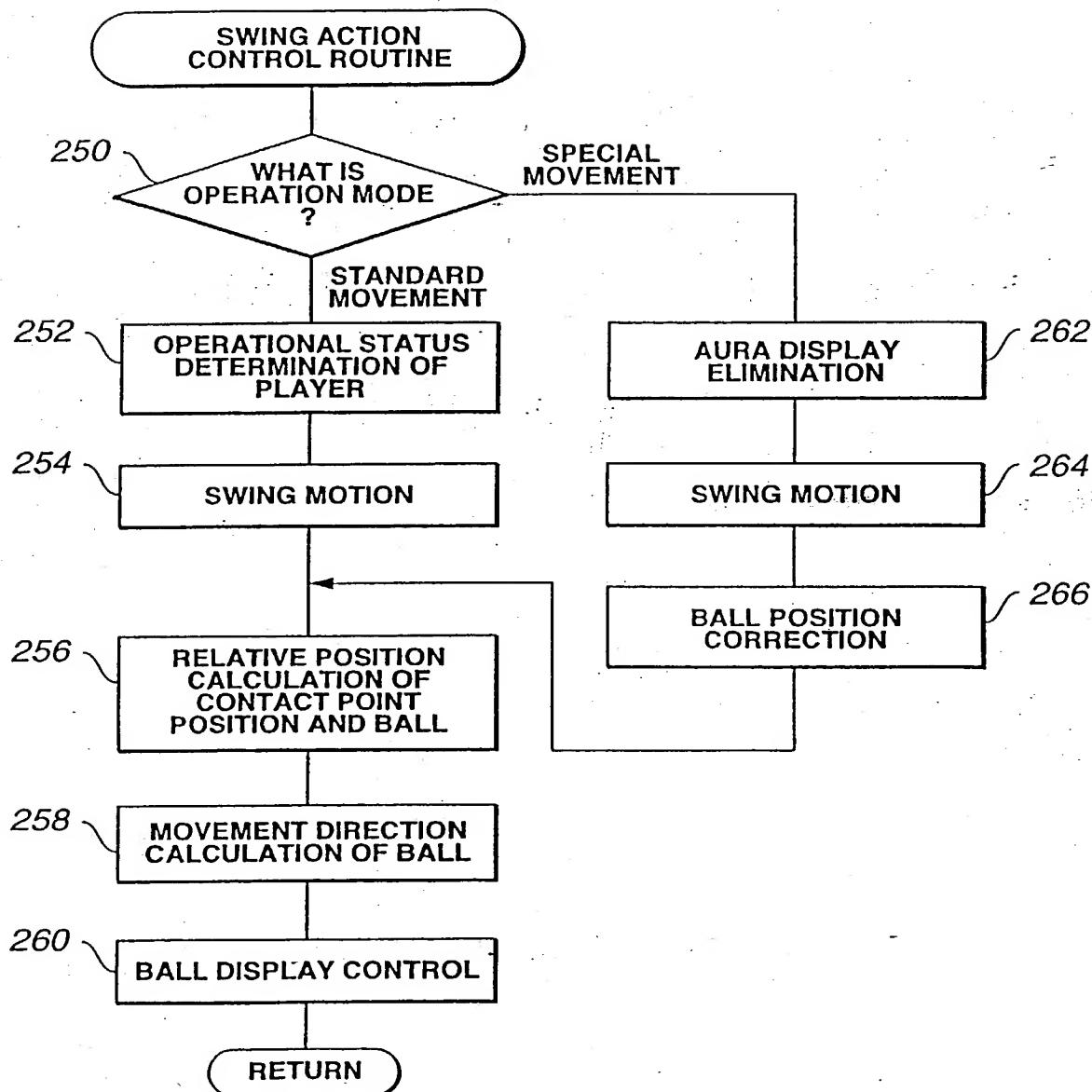
FIG. 6



```
graph TD
    226[MOVEMENT MODE DISTINCTION UNIT] --> 228[FUNCTION SELECTING UNIT]
    228 --> 230[STANDARD OPERATIONAL STATUS DETERMINATION]
    228 --> 236[LOCK-ON SELECTION UNIT]
    230 --> 232[RELATIVE POSITION CONTROL UNIT OF CONTACT POINT AND BALL]
    232 --> 234[PROCESSING EXECUTION UNIT]
    236 --> 238[SPECIAL OPERATIONAL STATUS DETERMINATION]
    238 --> 240[RELATIVE POSITION CORRECTION UNIT OF CONTACT POINT AND BALL]
    240 --> 242[PROCESSING EXECUTION UNIT]
    234 --> 242
```

The flowchart illustrates the control system for a contact point control unit and ball. It consists of two main vertical paths. The left path starts with the MOVEMENT MODE DISTINCTION UNIT (226), which connects to the FUNCTION SELECTING UNIT (228). The FUNCTION SELECTING UNIT (228) then branches to the STANDARD OPERATIONAL STATUS DETERMINATION (230) and the LOCK-ON SELECTION UNIT (236). The STANDARD OPERATIONAL STATUS DETERMINATION (230) leads to the RELATIVE POSITION CONTROL UNIT OF CONTACT POINT AND BALL (232), which then connects to the PROCESSING EXECUTION UNIT (234). The right path starts with the LOCK-ON SELECTION UNIT (236), which connects to the SPECIAL OPERATIONAL STATUS DETERMINATION (238). The SPECIAL OPERATIONAL STATUS DETERMINATION (238) leads to the RELATIVE POSITION CORRECTION UNIT OF CONTACT POINT AND BALL (240), which then connects to the PROCESSING EXECUTION UNIT (242). An OPERATIONAL SIGNAL input is shown entering the STANDARD OPERATIONAL STATUS DETERMINATION (230) and the SPECIAL OPERATIONAL STATUS DETERMINATION (238). The PROCESSING EXECUTION UNIT (234) also has a connection to the PROCESSING EXECUTION UNIT (242).

FIG.8



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FIG. 9

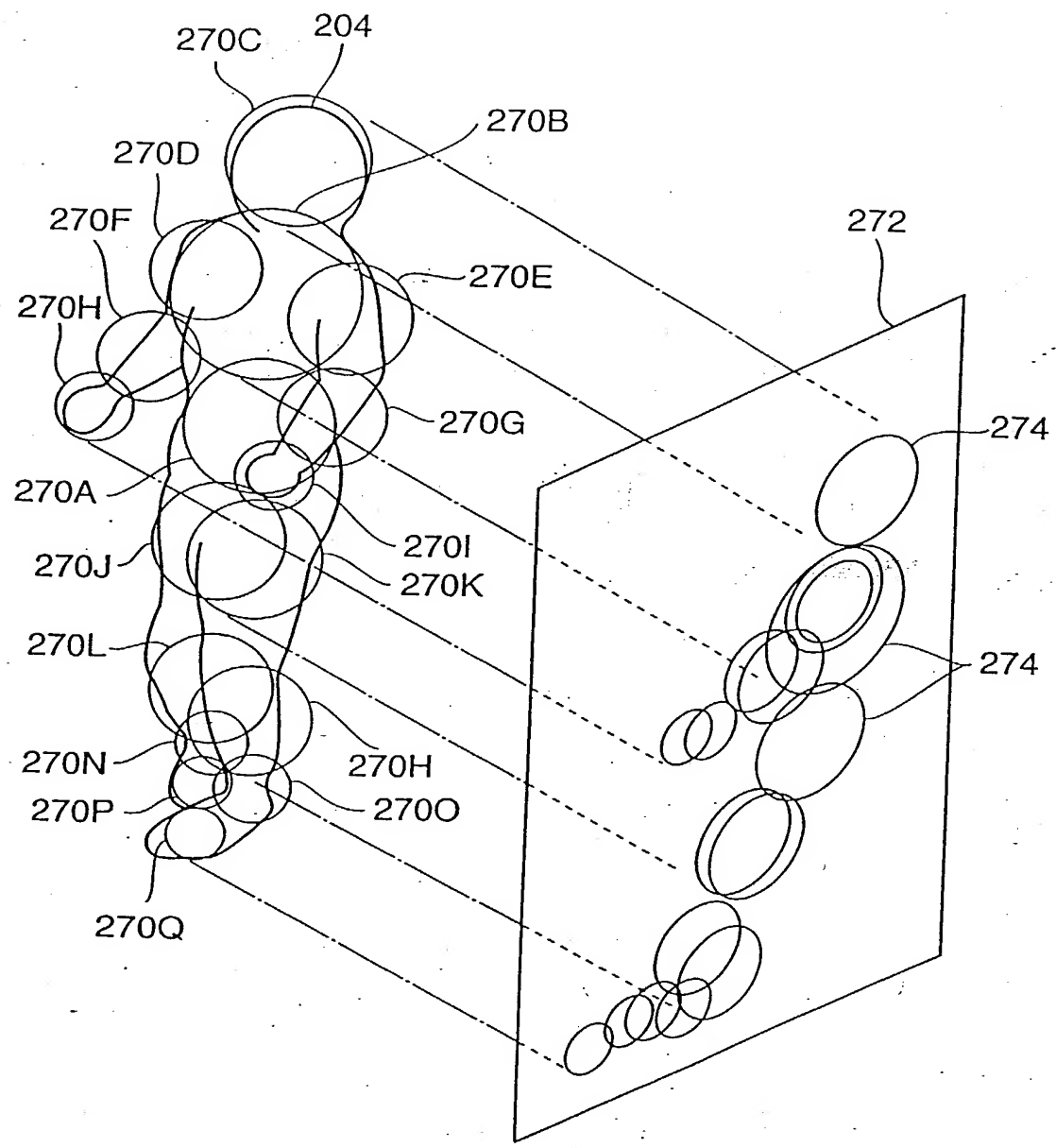


FIG. 10

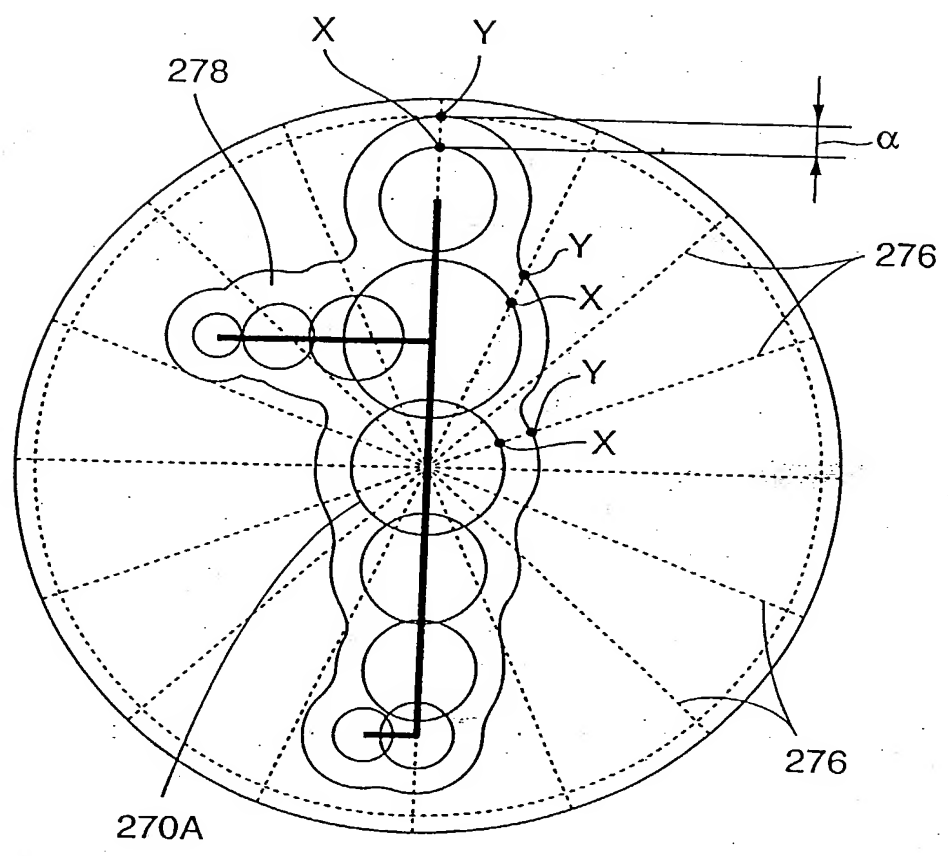


FIG.11

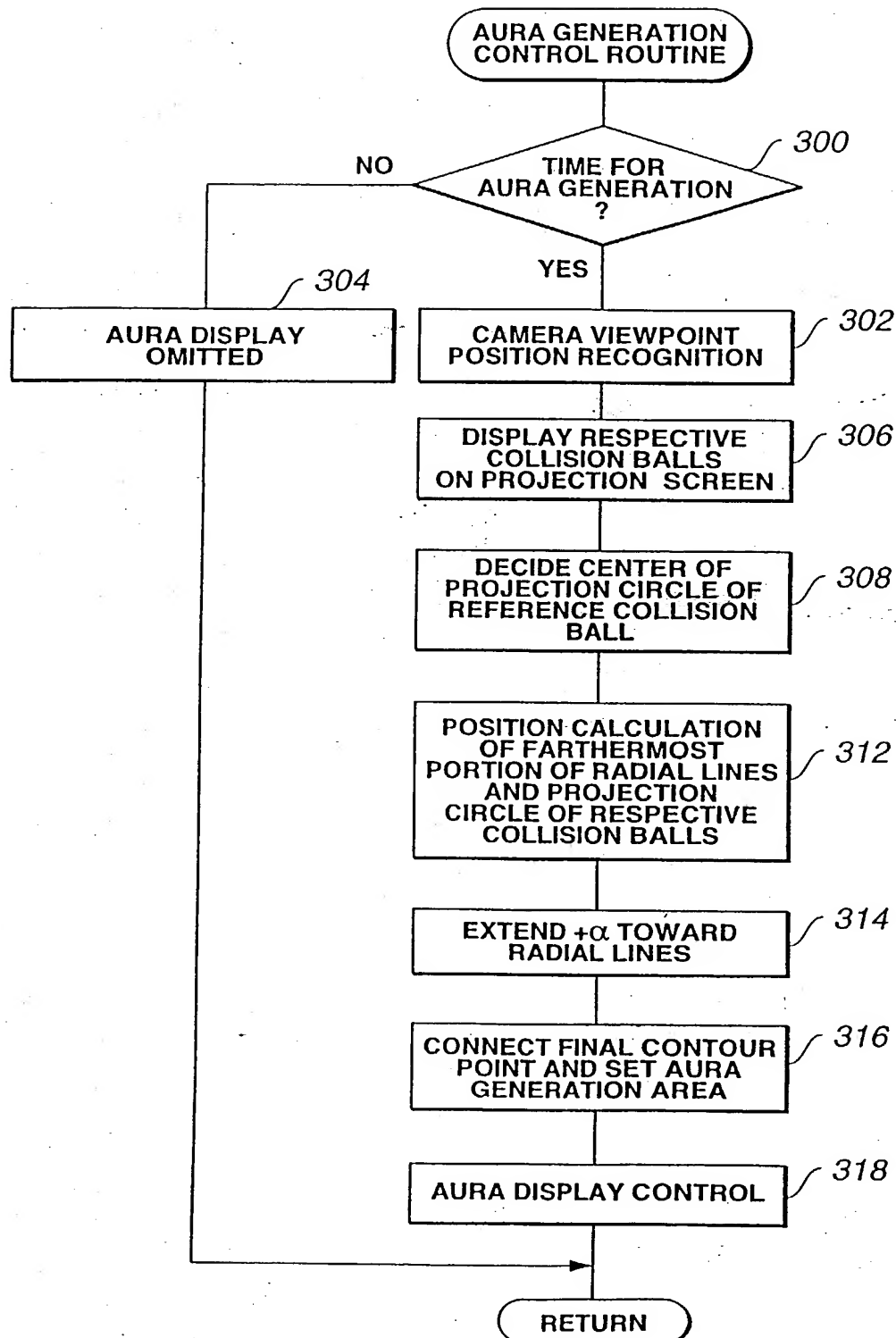
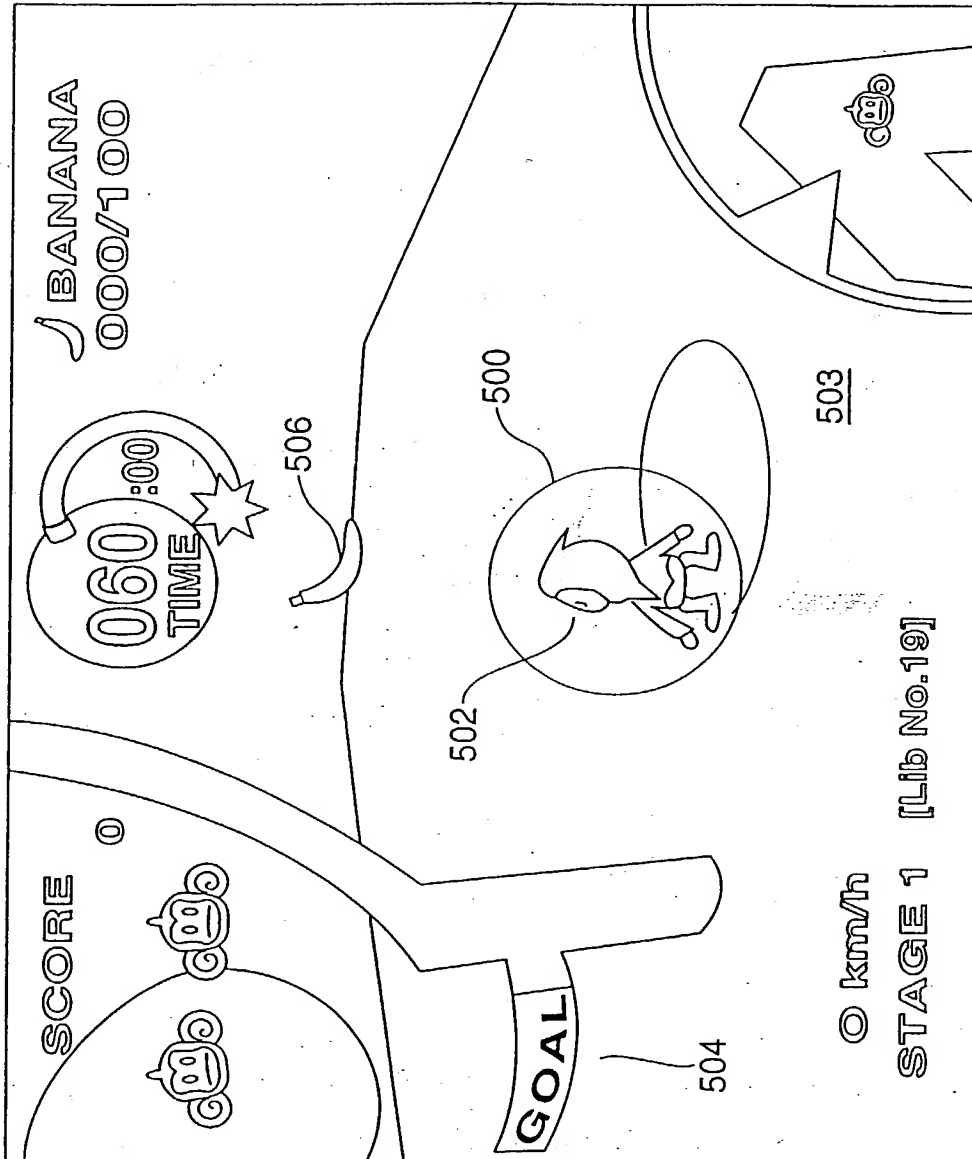
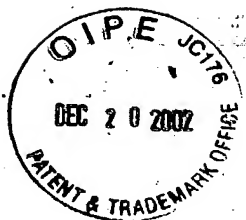


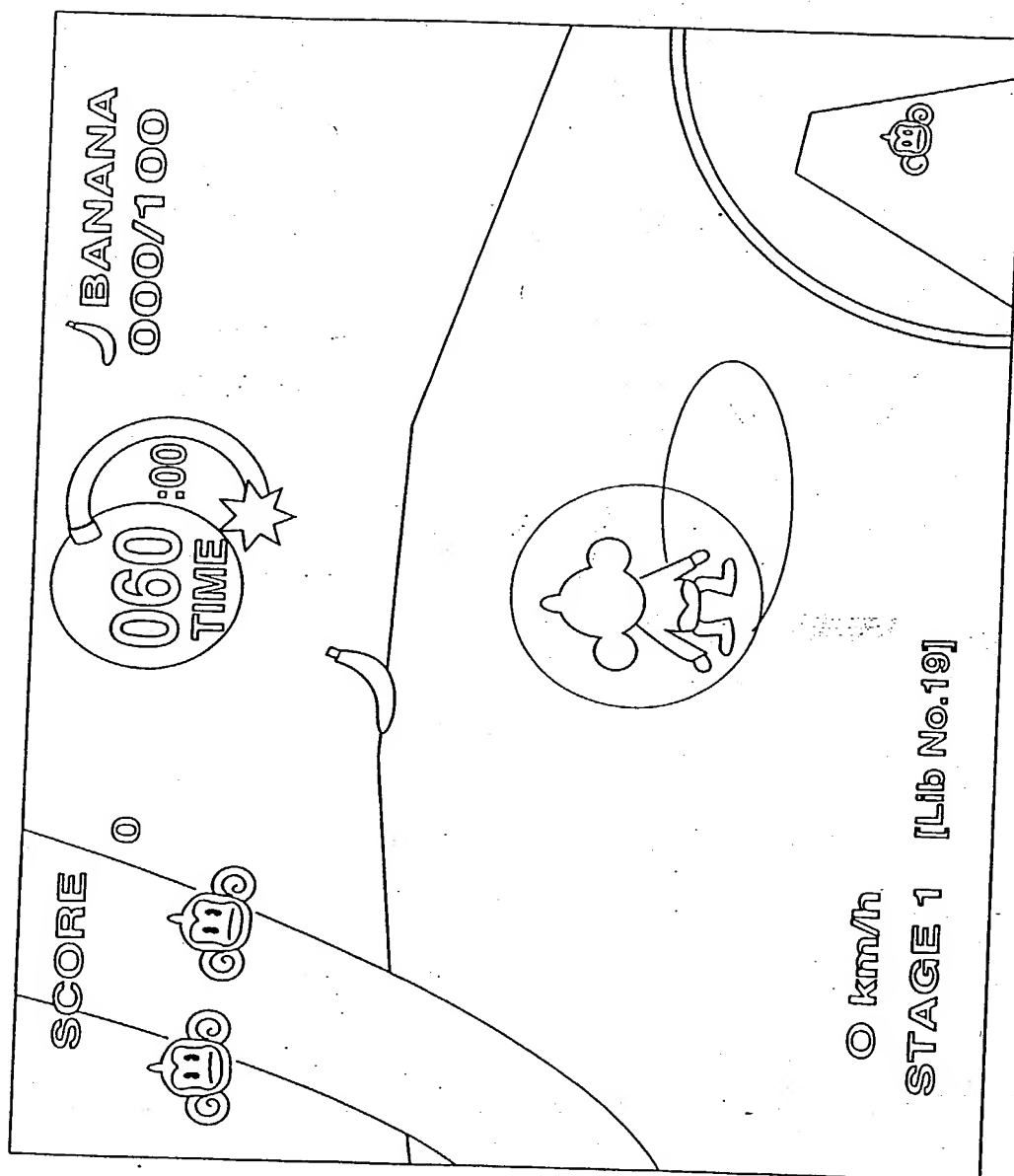
FIG. 12





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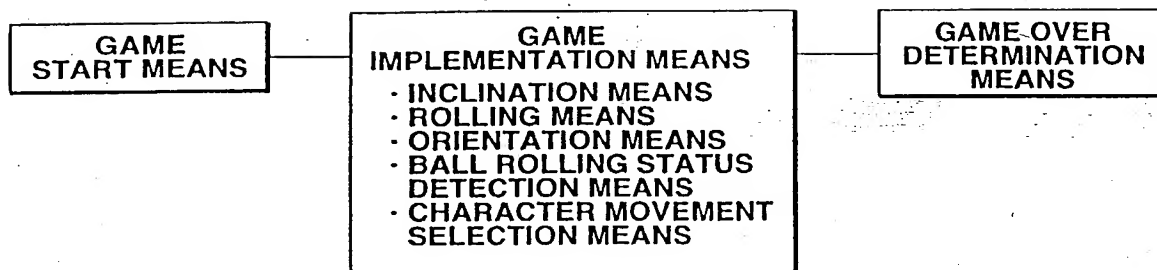
FIG. 13





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**FIG.14**





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FIG.15

